bio-protocol Preprint

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Loading of TH588 and Ce6 to SCLMs

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An abbreviated version of this protocol was published in Science Advances in Mar 2020

MTH1 inhibitor amplifies the lethality of reactive oxygen species to tumor in photodynamic therapy

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Detailed protocol

1. 3 mg of the TH588 (purchased from MedChemExpress) was dissolved in DMSO (400 µL) to form a 25 mM solution.
2. 6 mg of the Ce6 (purchased from J&K Chemicals) was dissolved in DMSO (500 µL) to form a 20 mM solution.
3. 1-40 µL of TH588 and/or 0.5-10 µL of Ce6 was added to 5 mL solution containing 10 mg·mL^{-1} SCLMs.
4. The solution was sonicated vigorously for 20 s to allow the loading of TH588 and/or Ce6 into the PPO core of SCLMs.

How to cite:（Readers should cite both the Bio-protocol preprint and the original research article where this protocol was used）

1. Zhao, L. , Peng, J. and Zhao, Y. (2020). Loading of TH588 and Ce6 to SCLMs. Bio-protocol Preprint. bio-protocol.org/prep343.
2. Zhao, L., Li, J., Su, Y., Yang, L., Chen, L., Qiang, L., Wang, Y., Xiang, H., Tham, H. P., Peng, J. and Zhao, Y.(2020). MTH1 inhibitor amplifies the lethality of reactive oxygen species to tumor in photodynamic therapy. Science Advances 6(10). DOI: 10.1126/sciadv.aaz0575

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